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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/057,546	01/25/2002	Alfred Ebbinghaus	02-139	3046
7590 10/14/2004			EXAMINER	
Gregory P. LaPointe Bachman & LaPointe, P.C.			KUHNS, ALLAN R	
900 Chapel Street, Suite 1201			ART UNIT	PAPER NUMBER
New Haven, CT 06510-2802			1732	

DATE MAILED: 10/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		-	<i>\(\lambda\)</i>			
		Application No.	Applicant(s)			
		10/057,546	EBBINGHAUS, ALFRED			
	Office Action Summary	Examiner	Art Unit			
		Allan Kuhns	1732			
Period fo	The MAILING DATE of this communicate or Reply	ion appears on the cover sheet w	ith the correspondence address			
THE - External after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA insions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) date of period for reply is specified above, the maximum statutor under the period for reply within the set or extended period for reply will, the reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 'CFR 1.136(a). In no event, however, may a ation. ys, a reply within the statutory minimum of thin y period will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1)[X]	Responsive to communication(s) filed or	n 14 June 2004 and 26 July 200)4 .			
·	•					
3)□	Since this application is in condition for		ters, prosecution as to the merits is			
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>17-26</u> is/are pending in the app 4a) Of the above claim(s) is/are w Claim(s) is/are allowed. Claim(s) <u>17,18 and 21-23</u> is/are rejected Claim(s) <u>19,20 and 24-26</u> is/are objected Claim(s) are subject to restriction	vithdrawn from consideration. d. d to.				
Applicat	ion Papers					
9)[The specification is objected to by the Ex	kaminer.				
10)[The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to by	•				
Priority (ınder 35 U.S.C. § 119					
12) <u></u> a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International See the attached detailed Office action for	numents have been received. Suments have been received in A ne priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage			
Attachmen	• •					
2) Notice (3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO er No(s)/Mail Date	948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 			

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1.Claims 19-20 and 24-26 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only (note claim 24). See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

- 2.The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3.Claims 18 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fiedler et al. (2,979,392) as set forth in the previous Office action in view of Niebylski et al. (3,873,392). Fiedler et al. disclose how to produce foams of desired density at column 4, lines 23-27 but appear not to disclose the production of a metal foam having a density within the range of claim 18. However, Niebylski et al. disclose the utility of producing metal foams having a density within the range of claim 18 at column 2, lines 33-57, particularly column 2, lines 47-48. Given this teaching of Niebylski et al.,it would have been obvious to one of ordinary skill in the art to form a metallic foam having a density within the claimed range using the process of Fiedler et al. since Niebylski et al. describes the usefulness of such a metallic foam.

The prior art relied upon discloses or suggests a workable material, as in claim 21, a metal, as in claim 22, and a metal from the group of claim 23.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 17, 18 and 21-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Allen et al. (3,087,807). Allen et al. disclose the basic claimed process for a reinforced formed part comprising an at least partially hollow metal external formed part (column 4, lines 52-62) filled at least in part with a metal foam including (1) forming an at least partially hollow metal external formed part, (2) forming a foamable prepreg body (note extruded mass 25) comprising a relatively dense body of metal powder admixed with a foaming agent, (3) locating the prepreg body within the hollow metal external formed part, (4) heating the prepreg body to provide a metal foam material within the hollow formed part by foaming, and (5) simultaneouslywith the foaming, contacting the metal foam material with at least part of the hollow metal part to bring them into form fit relation, wherein the density of the metal foam is between 0.3 to 5.0 grams per cubic centimeter (column 6, lines 12-13).

Allen et al. teach the use of materials for the external formed part which meet the limitations of claims 21-23 at column 4, lines 52-62).

5.Applicant's arguments filed June 14, 2004 and July 26, 2004 have been fully considered but they are not persuasive. Applicant's arguments are considered to be moot by the examiner based on the revised grounds of rejection introduced in this Office action.

6.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Kuhns whose telephone number is (571) 272-

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1202. The examiner can normally be reached on Monday to Thursday from 7:00 to

5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni, can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ALLAN R. KUHNS PRIMARY EXAMINER A U 1732

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